

Technology Overview

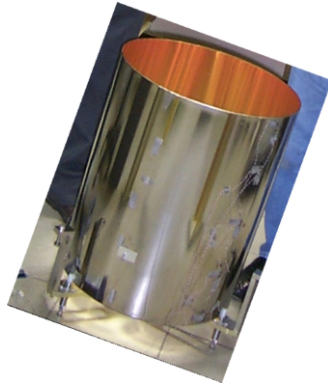
Bob Rasche
October 14, 1999



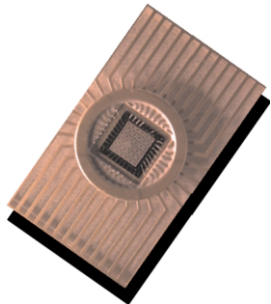
Constellation-X Technology

Approach

- Extension of demonstrated technology
- Parallel path technology development with defined selection milestones
- Flight program requirements part of selection process
- Integrated systems engineering for feasible payload
- Leverage other technology investments:
 - Cross-enterprise technology, e.g., Cryocoolers
 - SBIR, e.g., optics
 - SR&T, e.g., CdZnTe detectors, HXT optics



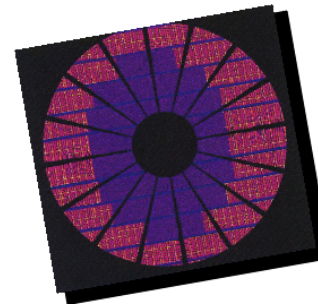
Lightweight X-ray Optics



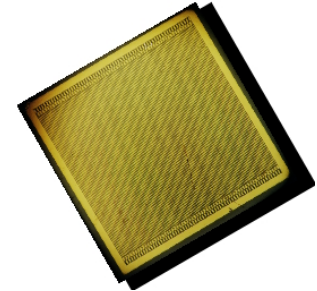
X-ray Calorimeters



Cryocoolers



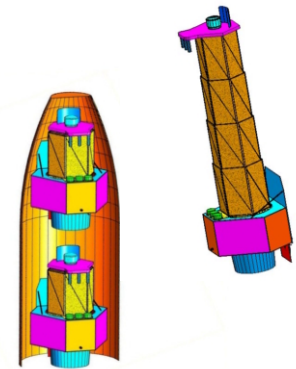
CCD/Gratings



CdZnTe Arrays



Multilayer Coatings



Deployable Structures

Constellation-X



The Constellation-X Technology Roadmap

